

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method of transmit power control during a group call to a plurality of devices comprising the steps of:

at a receiving device in a time division multiplexing system wherein the receiving device is in the group call in talk around mode with a transmitting device:

receiving a signal on a forward channel;

estimating a signal quality for the signal received on the forward channel; and

if the signal quality is below a threshold, transmitting a power control message on at least a portion of a single common reverse channel to the transmitting device that is in the group call, wherein the power control message requests an increase in transmit power for subsequently received signals.

2. (original) The method of claim 1 and further comprising the step of continually transmitting the power control message until a signal quality of a subsequently received signal on the forward channel exceeds a second threshold.

3. (original) The method of claim 1 wherein the signal quality is based on at least one of the following measurements: a bit error rate, a message error rate, a frame error rate, a received signal strength indicator, a symbol error rate, a waveform eye opening, a frequency lock and a time lock.

4. (original) The method of claim 1 wherein the power control message is transmitted along with control symbols.

5. (original) The method of claim 1 wherein the power control message is transmitted along with synchronization symbols and control symbols.

6. (original) The method of claim 1 wherein the power control message further provides synchronization.

7. (original) The method of claim 1 further comprising the step of, if the signal quality is above the threshold, not transmitting a power control message on at least a portion of the single reverse channel.

8. (currently amended) A method of transmit power control during a group call to a plurality of receiving devices comprising the steps of:

at a transmitting device in a time division multiplexing system wherein the transmitting device is in the group call in talk around mode with the plurality of receiving devices:

transmitting at least one signal on a forward channel at a transmit power level; and
adjusting the transmit power level based on observing a ~~single~~common reverse channel,
wherein the ~~single~~common reverse channel is temporally same and shared by ~~at~~the plurality of receiving devices in the group call.

9. (original) The method of claim 8 wherein the transmit power level is adjusted by a step size.

10. (original) The method of claim 8 wherein the step of adjusting comprises increasing the transmit power level when a presence of a predetermined number of power control messages is observed on the single reverse channel within a window of time.

11. (original) The method of claim 8 wherein the step of adjusting comprises decreasing the transmit power level when a non-presence of a predetermined number of power control messages is observed on the reverse channel within a window of time.

12. (original) The method of claim 8 and further comprising the steps of:
detecting a transmit power oscillation;
setting an oscillation counter to a predetermined value based on the transmit power oscillation, wherein the predetermined value is a non-zero integer;
decrementing the oscillation counter value when a non-presence of a predetermined number of power control messages is observed on the reverse channel within a window of time;
and
decreasing the transmit power level by a predetermined step size.
13. (original) The method of claim 12 wherein the predetermined step size is a minimum value.
14. (currently amended) A method of transmit power control during a group call to a plurality of receiving devices comprising the steps of:
at a transmitting device in a time division multiplexing system wherein the transmitting device is in the group call in talk around mode with the plurality of receiving devices:
transmitting signals on a forward channel at a transmit power level;
switching between three power states based on one of: a presence of X power control messages on a common reverse channel within a first window of time, or a non-presence of Y power control messages on the common reverse channel within a second window of time, wherein the common reverse channel is temporally same and shared by the plurality of receiving devices; and
dynamically adjusting the transmit power level for subsequent signals based on a current power state,
wherein a first power state is to maintain a current transmit power level, a second power state is to decrease the current transmit power level, and the third power state is to increase the current transmit power level, and wherein X and Y are integer values.

15. (currently amended) A method of transmit power control during a group call to a plurality of receiving devices comprising the steps of:

at a transmitting device in a time division multiplexing system wherein the transmitting device is in the group call in talk around mode with the plurality of receiving devices:

setting a transmit power level to a predetermined power level;

transmitting at least one signal on a forward channel at the predetermined power level;

and

if a first predetermined number of power control messages are detected on a common reverse channel within a first time frame, increasing the transmit power level for subsequent signals; if a second predetermined number of power control messages are not detected on the reverse channel within a second time frame, decreasing the transmit power level for subsequent signals; otherwise, maintaining the transmit power level.

16. (original) The method of claim 15 wherein the predetermined power level is a maximum power level.

17. (original) The method of claim 15 wherein the predetermined power level is a minimum power level.

18. (new) The method of claim 1 wherein the power control message includes at least a power control preamble message which is a predetermined a priori known message.

19. (new) The method of claim 8 wherein the step of adjusting further comprises transmitting a power control message comprising at least a power control preamble message that is predetermined and known a priori to the plurality of receiving devices.

20. (new) The method of claim 14 wherein the power control messages comprise at least power control preamble messages that are predetermined and known a priori to the plurality of receiving devices.